

RAVEN SYSTEM
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RAVEN SYSTEM
McGraw-Hill, Inc., June 03-31-83

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FLY CONTROL IN DAIRY BARN WITH ISOTOX . . . 1 of 12

notes:

~~EXPERIMENTAL~~

Reg # 239-529

JUL 1 1948

With letter.

Location: Haddonfield, New Jersey

Owner: Robert Willets, Preston Road, Haddonfield, New Jersey

Size of Barn: 36 ft. X 80 ft.

No. of Cows: 56

Fly Breeding Conditions: Accumulated manure piles and wet straw conditions
Indusive to heavy population of flies.

Date Sprayed: May 27, 1948

Research Supervisor: Dr. T. Walter Reed, Assistant Manager of Research,
California Spray-Chemical Corp. Spraying done by Dr. Reed's staff.

Quantity of Spray Used: 50 gallons; concentration of spray - 8 lbs. per
100 gallons, ISOTOX Wettable No. 250 (containing 25% pure gamma isomer).

Fly Control: Immediate knock-down and kill of entire fly population. All
house flies, stable flies and Tabanid flies entering the barn and alighting
on the walls for a period of four weeks were killed.. Tabanid flies, stable
flies and horse flies entering the barn on the cattle left the cattle and
were killed when alighting on the sprayed surfaces, so that cattle were not
bothered during the milking and supplementary spraying was not necessary.

Degree of Milk Contamination: Samples of milk were tasted by Mr. Willets
and family and Dr. T. Walter Reed, and no off flavor or off odor could be
detected. 200 cc. samples of milk in duplicate, from morning milk,
composite sample, was collected; formalin added at the rate of 2 cc. per
quart, and these samples shipped to Dr. Kimball of Hooker Electrochemical
Company, for benzene hexachloride analysis. Analysis was made by a method
worked out jointly by Pure Food and Drug chemists and Hooker Electrochemical
Company chemists. Method approved by Pure Food and Drug. Details can be
secured from Dr. Davidow or Dr. Frawley of Pure Food and Drug. Analytical
results as reported by Dr. Kimball are attached.

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RAVEN SYSTEM
HOLLISTER, CALIFORNIA 08-31-83

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INDIANA HORTICULTURAL COMMISSION
RESEARCH ANALYTICAL LABORATORY

DETERMINATION OF DDT SPRAY RESIDUES IN MILK

<u>Sample Code No.</u>	<u>Date</u>	<u>Identification</u>	<u>ppm DDC (duplicate samples)</u>
HLW No. 1	5/25/49	First Blank	0.0
HLW No. 2	5/27/49	Second Blank	0.0
HLW No. 3	5/28/49	First post-spraying sample, 24 hrs. after barn sprayed on 5/27/49	0.0
HLW No. 4	5/30/49	Second post-spraying sample, 3 days after barn sprayed	0.0
HLW No. 5	6/1/49	Sample taken 5 days after spraying	0.0
HLW No. 6	6/3/49	Sample taken 7 days after spraying	0.0

R. H. KIMBALL

June 23, 1949

0002

FLY CONTROL IN DAIRY BARN WITH ISO-TOX

3

EXPERIMENT NO. 2

JUL 1 - 1949

With letter _____

Location: Freehold, New Jersey

Owner: Dr. Schemak

Size of Barn: 18 ft. X 26 ft.

No. of Cows: 10

Fly Breeding Conditions: Accumulated manure piles and wet straw conditions inclusive to heavy population of flies.

Date Sprayed: June 7, 1949

Research Supervisor: Dr. Elton J. Hansen, New Jersey Experiment Station, New Brunswick, New Jersey. Spraying done by Dr. Hansen and staff.

Quantity of Spray Used: 15 gallons spray; concentration of spray - 8 lbs. per 100 gallons, ISO-TOX Wettable No. 250 (containing 25% pure gamma isomer).

Fly Control: Excellent fly control to date.

Degree of Milk Contamination: Samples pasturized and taste tested by Dr. Hansen and members of the Dairy Department staff. No off flavor or off-odor detected. 200 cc. samples of milk in duplicate, from morning milk, composite sample, was collected; formalin added at the rate of 2 cc. per quart, and these samples shipped to Dr. Kimball of Hooker Electrochemical Company, for benzene hexachloride analysis. Analysis was made by a method worked out jointly by Pure Food and Drug chemists and Hooker Electrochemical Company chemists. Method approved by Pure Food and Drug. Details can be secured from Dr. Davidow or Dr. Freseley of Pure Food and Drug. Analytical results as reported by Dr. Kimball are attached.

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RAVEN SYSTEM
Hydrogen, can run 03-31-83

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ROGUE INSTRUMENTAL COMPANY
RESEARCH ANALYTICAL LABORATORY

DETERMINATION OF HBC SPRAY RESIDUES IN MILK

<u>Sample</u> <u>Code No.</u>	<u>Date</u>	<u>Identification</u>	<u>HBC</u> <u>PPM</u>
HJL-1a	6/5/49	Schonck Form	0
HJL-2a	6/7/49	•	0
HJL-3a	6/9/49	•	0
HJL-4a	6/10/49	•	0
HJL-5a	6/12/49	•	0
HJL-6a	6/14/49	•	0

R H KIMBALL

June 24, 1949

0034

FLY CONTROL IN DAIRY BARN WITH ISOTOX

EXPERIMENT NO. 3

JUL 1 - 1949

With letter

Location: Freehold, New Jersey

Owner: Mr. Deashey

Size of Barn: 30 ft. X 40 ft.

No. of Cows: 25

Fly Breeding Conditions: Accumulated manure piles and wet straw conditions conducive to heavy population of flies.

Date Sprayed: June 7, 1949

Research Supervisor: Dr. Elton J. Hansen, New Jersey Experiment Station, New Brunswick, New Jersey. Spraying done by Dr. Hansen and staff.

Quantity of Spray Used: 35 gallons of spray; concentration of spray - 8 lbs. per 100 gallons, ISOTOX wettable No. 250 (containing 25% pure gamma isomer).

Fly Control: Excellent fly control to date.

Degree of Milk Contamination: Samples pasturized and taste tested by Dr. Hansen and members of the Dairy Department staff. Traces of BHC were found in some of these samples. Some duplicate samples showed no traces of BHC. 200 cc. samples of milk in duplicate, from morning milk, composite sample, was collected; formalin added at the rate of 2 cc. per quart and these samples shipped to Dr. Kimball of Hooker Electrochemical Company, for benzene hexachloride analysis. Analysis was made by a method worked out jointly by Pure Food and Drug chemists and Hooker Electrochemical Company chemists. Method approved by Pure Food and Drug. Details can be secured from Dr. Davidow or Dr. Frawley of Pure Food and Drug. Analytical results as reported by Dr. Kimball are attached.

These data have been discussed with Dr. Woodard of Pure Food and Drug, and Dr. Haller of the Bureau of Entomology. Dr. Kimball of Hooker Electrochemical Company states that .2 parts per million is the limited accuracy of the test and the trace reported in these data was not enough to be positive that any BHC was present. Dr. Haller and Dr. Woodard both felt that this was not proof of contamination and when considered with the analysis from the other barns, was to be expected that there could be this much variation in a delicate analytical procedure such as was used in this work.

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NUCLEAR ELECTROCHEMICAL COMPANY

RESEARCH ANALYTICAL LABORATORY

DETERMINATION OF ERG SPAN RESIDUES IN MILK

Sample Code No.	Date	Identifications	Test
HJ2-1a	6/5/49	Bonchay Fats	0
HJ2-1b	"	"	0
HJ2-2a	6/7/49	"	0
HJ2-2b	"	"	0
HJ2-3a	6/8/49	"	0
HJ2-3b	"	"	0
HJ2-4a	6/10/49	"	Y
HJ2-4b	"	"	T
HJ2-5a	6/12/49	"	T
HJ2-5b	"	"	T
HJ2-6a	6/24/49	"	T
HJ2-6b	"	"	Q

R. H. KINNALL

June 24, 1949

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FLY CONTROL IN DAIRY BARN WITH ISOTOX

EXPERIMENT NO. 4

JUL 1 - 1949

With letter _____

Location: Freehold, New Jersey

Owner: Mr. Merrick

Size of Barn: 25 ft. X 60 ft.

No. of Cows: 25

Fly Breeding Conditions: Accumulated manure piles and wet straw conditions inclusive to heavy population of flies.

Date Sprayed: June 7, 1949

Research Supervisor: Dr. Elton J. Hansen, New Jersey Experiment Station, New Brunswick, New Jersey. Spraying done by Dr. Hansen and staff.

Quantity of Spray Used: 36 gallons of spray; concentration of spray - 5 quarts per 100 gallons, ISOTOX Liquid No. 200 (containing 20% pure gamma isomer).

Fly Control: Excellent fly control to date.

Degree of Milk Contamination: Samples pasturized and taste tested by Dr. Hansen and members of the Dairy Department staff. No off flavor or off odor detected. 200 cc samples of milk in duplicate, from morning milk, composite sample, were collected; formalin added at the rate of 2 cc. per quart, and these samples shipped to Dr. Kimball of Hooker Electrochemical Company, for benzene hexachloride analysis. Analysis was made by a method worked out jointly by Pure Food and Drug chemists and Hooker Electrochemical Company chemists. Method approved by Pure Food and Drug. Analytical results as reported by Dr. Kimball are attached. Details can be secured from Dr. Davidow or Dr. Frawley of Pure Food and Drug, regarding analytical method.

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ROCKAWL ELECTROCHEMICAL COMPANY
RESEARCH ANALYTICAL LABORATORY

DETERMINATION OF HSG SPRAY RESIDUE IN MILK

<u>Sample Code No.</u>	<u>Date</u>	<u>Identification</u>	<u>HSG PPM</u>
HJ3-1a	6/3/49	Merrick Farm	0
HJ3-2a	6/7/49	"	0
HJ3-3a	6/8/49	"	0
HJ3-4a	6/10/49	"	0
HJ3-5a	6/12/49	"	0
HJ3-6a	6/14/49	"	0

R H KIMBALL

June 24, 1949

0018

FLY CONTROL IN DAIRY BARN WITH ISOTOX

EXPERIMENT NO. 8

JUL 1 - 1948

With letter

Location: Freehold, New Jersey

Owner: Mr. Clayton

Size of Barn: 80 ft. x 30 ft.

No. of Cows: 18

Fly Breeding Conditions: Accumulated manure piles and wet straw conditions inclusive to heavy population of flies.

Date Sprayed: June 7, 1948

Research Supervisor: Dr. Elton J. Hansen, New Jersey Experiment Station, New Brunswick, New Jersey. Spraying done by Dr. Hansen and staff.

Quantity of Spray Used: 18 gallons of spray; concentration of spray - 5 quarts per 100 gallons, ISOTOX Liquid No. 200 (containing 20% pure gamma isomer).

Fly Control: Excellent fly control to date.

Degree of Milk Contamination: Samples pasteurized and taste tested by Dr. Hansen and members of the Dairy Department staff. No off flavor or off odor detected. 200 cc. samples of milk in duplicate, from morning milk, composite sample, were collected; formalin added at the rate of 2 cc. per quart, and these samples shipped to Dr. Kimball of Hooker Electrochemical Company, for benzene hexachloride analysis. Analysis was made by a method worked out jointly by Pure Food and Drug chemists and Hooker Electrochemical Company chemists. Details can be secured from Dr. Davidow or Dr. Frawley of Pure Food and Drug. Analytical results as reported by Dr. Kimball are attached.

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WALKER ELECTROCHEMICAL COMPANY

MECHANIC ANALYTICAL LABORATORY

DETERMINATION OF 2000 SPRAY RESIDUE IN MILK

<u>Sample</u> <u>Code No.</u>	<u>Date</u>	<u>Identification</u>	<u>REC</u>	<u>REJ</u>
HJ4-1a	6/3/48	Clayton Farm	0	
HJ4-2a	6/7/48		0	
HJ4-3a	6/12/48		0	
HJ4-4a	6/12/48		0	
HJ4-5a	6/12/48		0	
HJ4-6a	6/14/48		0	

R. H. KIMBALL

June 24, 1948

0010

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With letter _____

U. S. D. A. EXPERIMENTS AT KERRVILLE, TEXAS

Similar experiments are being conducted at Kerrville, Texas under the office of Dr. Edmund N. Enspilng, Bureau of Entomology and Plant Quarantine, Division of Insects Affecting Man and Animals, U. S. Department of Agriculture.

All details and data relative to these experiments may be obtained by contacting Dr. Enspilng.

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JUL 1 - 1948

With letter

~~CONFIDENTIAL~~

Details of the boron homologous test were worked out by Dr. B. Davidow, and Dr. J. P. Freseley, of the Food and Drug Administration, and Dr. E. M. Kinball and Dr. L. A. Tufts, of Nuclear Electrotechnical Company. All details were discussed at a conference with the following people present.

Dr. M. L. Mallie - Bureau of Entomology & Plant Quarantine
Dr. E. F. Daigle - " "
Dr. B. Davidow - Food and Drug Administration
Dr. J. P. Freseley - "
Dr. E. P. Long - " "
Dr. T. H. Reed - Calagray
Dr. E. M. Kinball - Nuclear Electrotechnical
Dr. L. A. Tufts - "

The proper procedure for collecting samples, reporting data, size of sample, etc. were determined at this conference. Accuracy of test:

Added	Found
1.0 ppm	1.0 ppm
3.0 ppm	3.1 ppm
5.0 ppm	4.6 ppm

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